



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Communication Is Key to Packaging and Transportation Safety and Compliance

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Communication Is Important...

- ...at all levels
 - Internal with other program offices, field site offices, and contractors
 - External with states, tribes, and industry
 - Other Federal agencies
- ...for the safe and compliant transport of materials throughout the United States



Communication with External Stakeholders

- National Transportation Stakeholders Forum (NTSF)
 - NTSF Annual Meeting
 - Working groups
 - NTSF newsletter
 - NTSF wiki/Public web site
 - Webinars
- Other External Communications
 - State Regional Groups and Tribes
 - ASKPAT/Public Web Site
 - Waste Information Management System (WIMS)
 - Prospective Shipment Report




NTSF Annual Meeting 2012 – Oak Ridge tour



NTSF Annual Meeting 2010 – Chicago

National Transportation Stakeholders Forum

- Fourth Annual Meeting
- Currently have five active NTSF working groups
 - Working groups are established to address emerging transportation issues
- Quarterly Newsletter
- Webinars
 - Keep communications active throughout the year
- NTSF wiki
 - provides a central location for all documents developed under the NTSF
<http://ntsf.wikidot.com/>



National Transportation Stakeholders Forum | April, 2013

Welcome to our National Transportation Stakeholders Forum (NTSF) newsletter. The NTSF is the mechanism through which the Department of Energy communicates at a national level with states and tribes about the Department's shipments of radioactive waste and materials, as well as occasional high-visibility shipments that are nonradioactive. The NTSF meets once a year in the spring and holds webinars throughout the year. In the interim between NTSF events, this newsletter is our way of keeping the lines of communication open. We welcome your feedback on this, and any of the articles listed below. You can submit questions and suggestions to ASKPAT@hq.doe.gov.

In This Issue:

- [NTSF 2013 Planning](#)
- [Transportation Related Regulatory Initiatives](#): An effort to keep everyone informed of significant regulatory changes, opportunities for commenting on proposed rules, or other regulatory information.
 - [NEC Review: Revision of NUREG-0492, Instructions for Completing NEC's Uniform Low-Level Radioactive Waste Manifest](#)
 - [DOT Launches Free App Featuring Emergency Response Guidelines Delivery, Hazard Status Info into the Hands of Emergency Responders](#)
 - [Nuclear Regulatory Commission \(NRC\) Nicks off Effort to Address "Phantom Fear" Issues](#)
 - [NEC Draft Interim Guidance \(SFT-13G-14A\) Shielding and Radiation Protection Review Effort and Licensing Conditions for Dr. Storage Casks \(10 CFR part 72\)](#)
- [Waste Shipment Tracking Technology Lower Cost, Increase Efficiency](#)
- [Office of Packaging and Transportation Annual Report Issued](#)
- [Western Interstate Emergency Board High-Level Waste Committee Meeting in Portland](#)
- [Nearly 3,000 Emergency Responders Receive ERI Training](#)
- [Transportation Emergency Preparedness Program Training Translated into Spanish](#)
- [Upcoming Transportation Emergency Preparedness Program \(TEPP\) Training](#)

NTSF 2013 Planning

The 2013 NTSF Meeting will be held at the Hyatt Regency Hotel in Buffalo, NY from May 14-16, and will be sponsored jointly by the Office of Environmental Management and the Office of Nuclear Energy. The host for the 2013 meeting will be the Council of State Governments Eastern Regional Conference. The NTSF is the mechanism through which DOE communicates at a national level with states and tribes about the Department's shipments of radioactive waste and materials, as well as occasional high-visibility shipments that are nonradioactive. The purpose of the NTSF is to bring transparency, openness, and accountability to DOE's offsite transportation activities through collaboration with state and tribal governments. The NTSF meetings and webinars will be particularly relevant for personnel with responsibilities in packaging and transportation, emergency management, security, inspection and enforcement, and radiation protection.

More information on working groups and upcoming webinars is available on the [NTSF Wiki](#) or the [NTSF web site](#).

Click [here](#) for the registration web site for NTSF.

Additional Communication Venues

- Collaboration with SRGS and Tribes
 - New cooperative agreements with SRGs
 - Continue working with National Conference of State Legislatures (NCSL) to improve communication with the tribes.
- ASKPAT
 - Found on EM public website
 - Provides a quick way to get answers to questions on packaging and transportation.
- Prospective Shipment Report
 - Tool used to provide information on upcoming shipping activities for non-classified shipments
- WIMS
 - WIMS is developed to provide DOE Headquarters and site waste managers with the tools necessary to easily visualize, understand, and manage the vast volumes, categories, and problems of forecasted waste streams
 - WIMS can be found at <http://www.emwims.org/>

Site Shipping Activities

- Portsmouth :
 - UF6 shipments continue
 - 250 shipped to date to Eunice, NM
 - ~ 118 remaining
 - LLW/MLLW to NNSS
 - Estimated 269 shipments this FY
 - Lot 14
 - Planning is underway
 - No dates set
- West Valley – Melter:
 - Planning is underway
 - No dates set



Portsmouth UF6 Shipment



Packaged Melter

- ❑ 14' x 13' x 13' carbon steel box (IP-2 container)
- ❑ ~180 tons packaged
- ❑ ~4,570 curies, primarily Cs-137
- ❑ Max contact dose rate 5 mR/hr on contact
- ❑ Stored on site

Shipments from Oak Ridge

- Radioisotope Thermoelectric Generators (RTGs)
 - Built in between 1960 and 1986 as power sources for operation in remote areas
 - Disposed as waste at NNSS
 - Shipments began in September 2012 and were completed in January 2013
 - Used the GE-2000 cask
- Zero Power Reactor Plates (ZPR):
 - 128 canisters of ZPR plates/24 shipments
 - Being stored at NNSS

RTGs



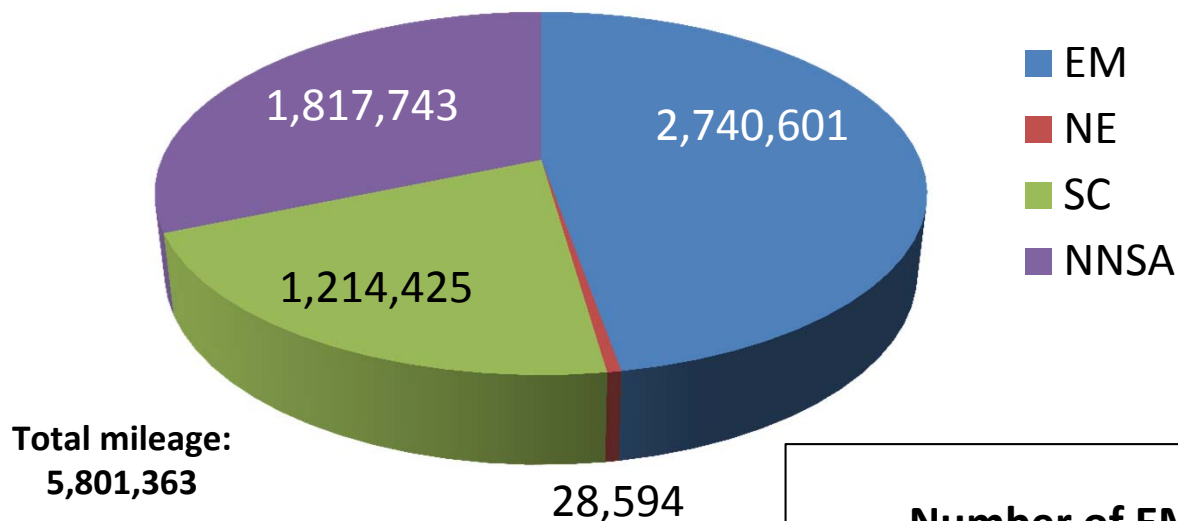
First RTG shipment



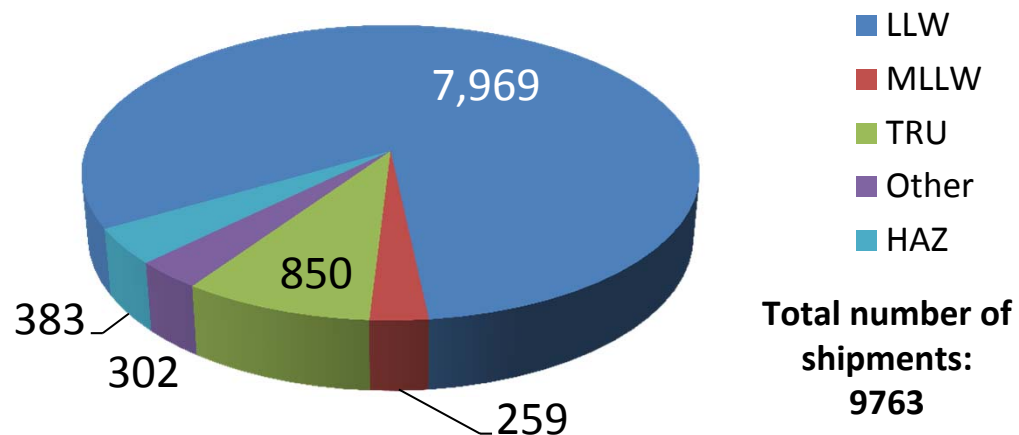
Zero Power Reactor
Plates

DOE Hazmat Shipments Fiscal Year 2012

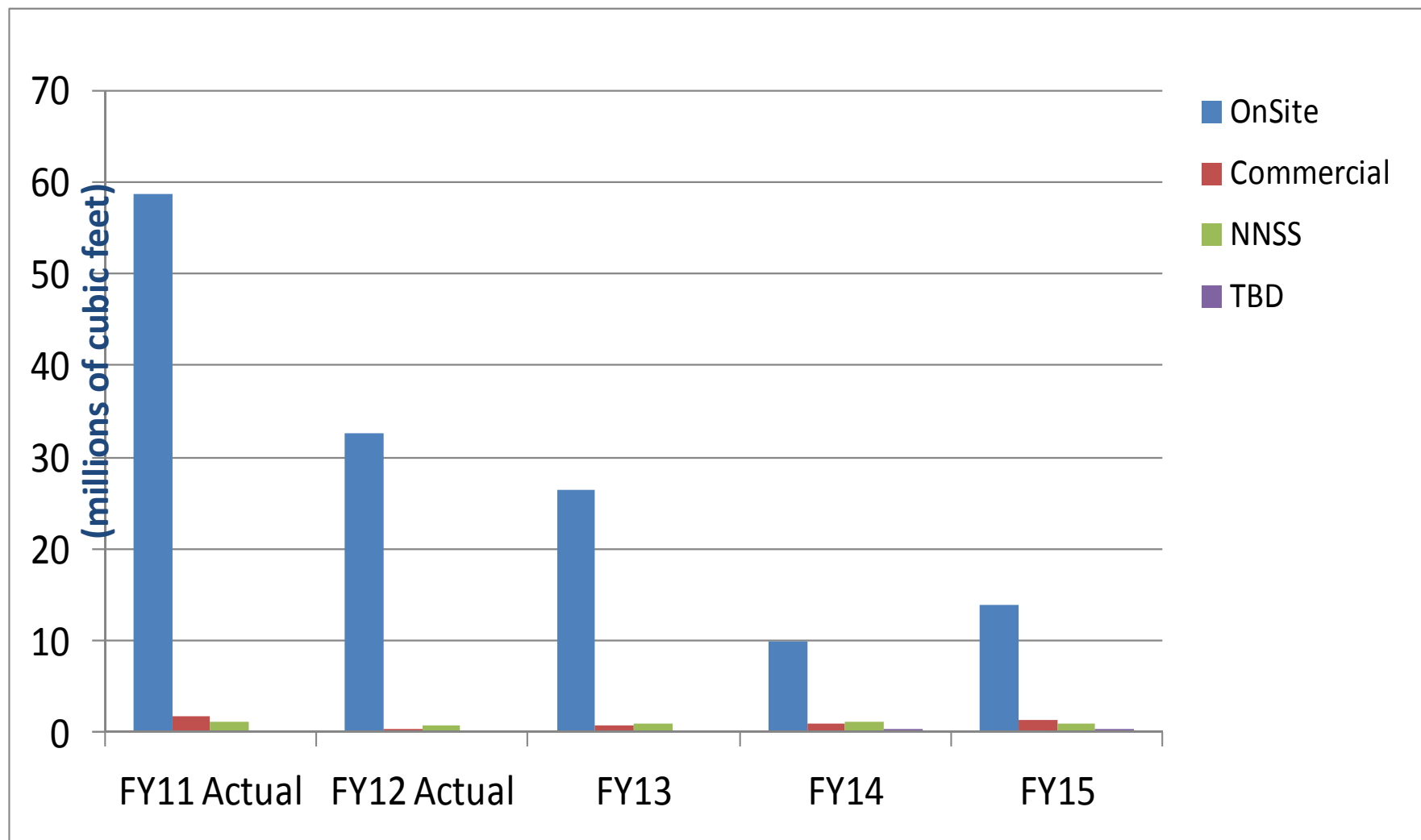
Total DOE mileage



Number of EM Shipments in FY12, by type



Complex-wide LLW/MLLW Disposal Forecasts Continue Downward Trend



Incidents in Fiscal Year 2013

- September 2012: Accident in Lincoln, Nebraska – shipment of MLLW from Perma-Fix Northwest going to TN, single vehicle accident without breach of container.
- March 2013: Accident in New Mexico – **nonradioactive** waste from Los Alamos National Laboratory – roll over on I-25, with a breach of one bin.
- April 2013: Incident in Kingman, Arizona – breach of container caused by a bungee cord metal fastener that was securing a tarp over the plastic tote. The tarp was used in an attempt to preserve the placarding on the containers. The metal fastener over time apparently caused the breach.



Before repair



After repair

Kingman, AZ container

Transportation Emergency Preparedness Program

- Redesigning web site to include detail on different training options
- Since 2005, TEPP has trained over 20,000 responders
- TEPP has conducted over 30 full scale exercises and drills
- Interest in the advanced level training has increased
- Over 2,000 trained this Fiscal Year
 - 750 in support of the NNSA
- Since October 2012, we have awarded 15 TEPP Instructor Patches
 - Noticeable increase in active participation by State representatives



Kenneth Peel, CA OES Radiological Coordinator, receiving his TEPP Instructor Patch



Kentucky Radiation Specialist Class

- Translation of MERRTT curriculum into Spanish
- Continued work with the National Fire Protection Association , Technical Committee for Hazardous Materials Response Personnel
 - 2013 NFPA cycle has reissued the Standard for Competencies for EMS Personnel Responding to Hazardous Materials/Weapons of Mass Destruction Incidents



Packaging & Transportation Corporate Board

- Establishing a Packaging and Transportation Corporate Board
 - Similar purpose as the Senior Executive Transportation Forum
- Will assist with integration and management of complex-wide P&T activities across programmatic lines (NE, SC, EM, etc.)
 - Introduction and use of best business practices
 - More consistent approach with external stakeholders
 - Sustainable Departmental P&T infrastructure to enable complex-wide integration and information exchange
 - Facilitate revisions to Orders, Manuals, and regulations
 - Improved partnering and working relationships with other Federal agencies or Non Government Organizations and industry
 - Cost avoidance or savings in operations

Packaging & Transportation Working Group

- Packaging and Transportation Subgroup established under the Energy Facility Contractors Group (EFCOG) Waste Management Working Group
- Focused on complex wide integration and experience. Initiatives include:
 - *Problem with Suspect Counterfeit Components on DOT Approved Ratchet Type Straps – Tie Down Strap Working Group*
 - *DOE v. DOT Release Contamination Limits*
 - *Trailer Contamination Super Sack Sub Working Group*



Packaging & Transportation Councils

- Transportation Management Council
 - cooperation & communication across programmatic & contractor lines
 - effective resource use
 - consistent application of requirements
 - standardization of traffic management, transportation operations, & motor carrier safety.
- Packaging Management Council
 - addresses Departmental challenges with the selection, procurement, design, fabrication, loading, & movement of packages containing hazardous/radioactive material.

Other Activities of Interest

- Collaborating with the General Services Administration in efforts to bring the Department's transportation/traffic management activities in line with other Federal agencies in an effort to reduce overall transportation costs.
- Worked with the ANSI N14 Committee to issue the following standards:
 - N14.1 - Packaging of Uranium Hexafluoride for Transport
 - N14.5 - Leakage Tests on Packages for Shipment
 - N14.7 - Guide to the Design and Use of Shipping Packages for Type A Quantities of Radioactive Materials
 - N14.36 - Measurement of Radiation Level and Surface Contamination for Packages and Conveyances

Packaging Certification Program

Completion of 34 package certification actions related to review and approval of new transportation packages, amendments, renewals, special approvals, and terminations.

Recognition at the Secretary's Honor Award Program for Packaging Certification Program (PCP) staff contributions to the Argonne National Laboratory Nuclear Footprint Reduction and Deactivation Plan. PCP worked with a diverse group of Federal and contractor employees who persistently and innovatively worked together across several organizations and DOE programs to achieve a highly favorable result.



Communication

is the key component to maintaining
a strong program that ensures
compliance and safety

Questions?